## **EAST Search History**

| Ref# | Hits | Search Query  | DBs   | Default<br>Operator | Plurals | Time Stamp          |
|------|------|---|---|---------------------|---------|---------------------|
| L1   | 2    | (("6523257") or ("4185378")).PN.  | USPAT; USOCR  | OR                  | OFF     | 2009/03/30<br>10:22 |
| S77  | 3    | (("6585903") or ("6523257") or<br>("4185378")).PN.  | US-PGPUB;<br>USPAT; USOCR   | OR                  | OFF     | 2009/03/17<br>13:15 |
| S76  | 1    | ("6585903").P <b>N</b> .  | US-PGPUB;<br>USPAT; USOCR   | OR                  | OFF     | 2009/03/17<br>12:09 |
| S75  | 1    | ("20040118605").PN.   | US-PGPUB;<br>USPAT; USOCR   | OR                  | OFF     | 2009/03/17<br>11:26 |
| S74  | 21   | ("5038252"   "5589669"   "5841075"   "6084397"   "6179631"   "6181219"   "6222277"   "6347734"   "6386435"   "6398935"   "6429645"   "6478604"   "6483041"   "6544392"   "6552277"   "6637641"   "6663442"   "6716072"   "6773269"   "6800545"   "6953892").PN. OR ("7155821"). URPN. | US-PGPUB;<br>USPAT; USOCR   | OR                  | OFF     | 2009/03/05<br>13:39 |
| S73  | 242  | 29/831,846,852,830.ccls. and<br>(drill) same (pcb (circuit adj<br>board))   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2009/03/05<br>13:11 |
| S72  | 535  | 29/831,846,852,830.ccls. and (drill) and (pcb (circuit adj board))  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2009/03/05<br>13:11 |
| S71  | 2009 | 29/831,846,852,830.ccls. and (drill bit laser\$3 bor\$4 punch\$3 stamp\$3) and (pcb (circuit adj board))  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2009/03/05<br>13:10 |
| S70  | 3478 | 29/831,846,852,830.ccls. and (drill bit laser\$3 bor\$4 punch\$3 stamp\$3)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR                  | ON      | 2009/03/05<br>13:10 |

| S69 | 2142 | 29/831,846,852,830.ccls. and (bit laser\$3 bor\$4 punch\$3 stamp\$3) same (hole open\$3 recess through-hole)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/03/05<br>13:10 |
|-----|------|--|---|----|-----|---------------------|
| S68 | 160  | 439/831,846,852,830.ccls. and (bit laser\$3 bor\$4 punch\$3 stamp \$3) same (hole open\$3 recess through-hole)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/03/05<br>13:09 |
| S67 | 330  | 439/831,846,852,830.cds. and (bit laser\$3 bor\$4 punch\$3 stamp \$3)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/03/05<br>13:08 |
| S66 | 6    | 439/831,846,852,830.cds. and drill<br>\$3  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/03/05<br>13:06 |
| S65 | 6    | 439/78831,846,852,830.ccls. and<br>drill\$3  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/03/05<br>13:05 |
| S64 | 1028 | 439/78.cds.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/03/05<br>13:00 |
| S63 | 11   | ("3801388"   "4404059"  <br>"4601916"   "5544773"  <br>"5590460"   "5738797"  <br>"5763060"   "5863446").PN. OR<br>("6585903").URPN.   | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2009/03/05<br>12:07 |
| S62 | 3    | (("6585903") or ("6523257") or<br>("4185378")).PN.   | USPAT; USOCR  | OR | OFF | 2009/03/05<br>10:47 |
| S61 | 1    | ("4214353").PN.  | USPAT; USOCR  | OR | OFF | 2008/08/14<br>12:40 |
| S60 | 12   | ("5347712"   "5378869"  <br>"5548099"   "5558928"  <br>"5614114"   "5640761"  <br>"5841099"   "5953029"  <br>"6192581"   "6282782"  <br>"6303881"   "6320140").PN. OR<br>("6523257").URPN. | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/08/14<br>12:16 |
| S59 | 2    | ("4514784").PN. OR ("4927370").<br>URPN.   | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/08/14<br>12:06 |

| S58         | 2    | (("4185378") or ("6585903")).PN.  | USPAT; USOCR  | OR | OFF | 2008/08/14<br>11:50 |
|-------------|------|---|---|----|-----|---------------------|
| S57         | 1    | ("4185378").PN.   | USPAT; USOCR  | OR | OFF | 2008/08/14<br>11:48 |
| S56         | 94   | "29"/\$.ccls. and ((circuit adj<br>board) (printed adj circuit adj<br>board) pcb) same (aperture hole<br>open\$3) with (offset)               | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/08/14<br>11:27 |
| S55         | 437  | "29"/\$.ccls. and ((circuit adj<br>board) (printed adj circuit adj<br>board) pcb) same (aperture hole<br>open\$3) with (offset away shift\$3) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/08/14<br>11:26 |
| S54         | 30   | "29"/\$.ccls. and ((circuit adj<br>board) (printed adj circuit adj<br>board) pcb) same (aperture hole<br>open\$3) with away same drill\$3     | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/08/14<br>11:24 |
| S53         | 15   | "29"/\$.ccls. and ((circuit adj<br>board) (printed adj circuit adj<br>board) pcb) same (aperture hole<br>open\$3) with away with drill\$3     | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/08/14<br>11:23 |
| S52         | 3    | "29"/\$.ccls. and ((circuit adj<br>board) (printed adj circuit adj<br>board) pcb) same (aperture hole<br>open\$3) with shift with drill\$3    | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/08/14<br>11:23 |
| S51         | 10   | "29"/\$.ccls. and ((circuit adj<br>board) (printed adj circuit adj<br>board) pcb) same (aperture hole<br>open\$3) with offset with drill\$3   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/08/14<br>11:17 |
| <b>S</b> 50 | 1083 | "29"/\$.ccls. and ((circuit adj<br>board) (printed adj circuit adj<br>board) pcb) same (aperture hole<br>open\$3) with drill\$3               | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/08/14<br>11:17 |
| S49         | 1154 | "29"/\$.ccls. and ((circuit adj<br>board) (printed adj circuit adj<br>board) pcb) same (aperture hole<br>open\$3) same drill\$3               | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/08/14<br>11:17 |

| S48 | 1126 | "29"/\$.ccls. and ((circuit adj<br>board) (printed adj circuit adj<br>board) pcb) same (aperture hole<br>recess) same drill\$3           | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/08/14<br>11:16 |
|-----|------|--|---|----|-----|---------------------|
| S47 | 2    | ((circuit adj board) (printed adj<br>circuit adj board) pcb) same<br>((aperture with hole) with (off<br>\$1center offset)) same drill\$3 | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/08/14<br>10:44 |
| S46 | 1    | ((circuit adj board) (printed adj<br>circuit adj board) pcb) same<br>((aperture with hole) with offset)<br>same drill\$3                 | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/08/14<br>10:41 |
| S45 | 11   | ("3801388"   "4404059"  <br>"4601916"   "5544773"  <br>"5590460"   "5738797"  <br>"5763060"   "5863446").PN. OR<br>("6585903").URPN.     | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/08/14<br>10:39 |
| S44 | 46   | "29"/\$.ccls. and ((circuit adj<br>board) (printed adj circuit adj<br>board) pcb) same (aperture with<br>hole) same drill\$3             | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/08/14<br>09:54 |
| S43 | 15   | "29"/\$.ccls. and ((circuit adj<br>board) (printed adj circuit adj<br>board) pcb) same (blind adj hole)<br>same drill\$3                 | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/08/14<br>09:23 |
| S42 | 7    | ("3301939"   "3875479"  <br>"5046957"   "5363280"  <br>"5543586"   "6522014").PN. OR<br>("7218530").URPN.                                | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/08/14<br>09:15 |
| S41 | 11   | 29/831,846,852,830.ccls. and ((circuit adj board) (printed adj circuit adj board) pcb) same (blind adj hole) same drill\$3               | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/08/14<br>09:14 |
| S40 | 3    | wave adj soldering adj facility  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/08/14<br>09:02 |
| S39 | 1    | ("4214353").PN.  | USPAT; USOCR  | OR | OFF | 2008/08/14<br>08:56 |
| S38 | 1    | ("4214120").PN.  | USPAT; USOCR  | OR | OFF | 2008/08/14<br>08:44 |

| S37 | 1  | ("4185378").PN.  | USPAT; USOCR  | OR | OFF | 2008/08/13<br>17:43 |
|-----|----|--|---|----|-----|---------------------|
| S36 | 1  | "29"/\$.ccls. and wave adj<br>soldering adj facility       | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/08/13<br>17:03 |
| S35 | 1  | "439"/\$.ccls. and wave adj<br>soldering adj facility      | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/08/13<br>16:59 |
| S34 | 3  | "439"/\$.ccls. and reflow adj solder<br>adj oven           | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/08/13<br>16:52 |
| S33 | 18 | "439"/\$.ccis. and solder adj oven                         | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/08/13<br>16:50 |
| S32 | 1  | 29/831,846,852,830.ccls. and reflow adj soldering adj oven | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/08/13<br>16:50 |
| S31 | 0  | "439"/\$.ccls. and solder adj overn                        | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/08/13<br>16:49 |
| S30 | 0  | "29"/\$.ccls. and solder adj overn                         | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/08/13<br>16:46 |
| S29 | 0  | 29/831,846,852,830.ccls. and solder adj overn              | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/08/13<br>16:46 |

| S28  | 0  | 29/831,846,852,830.ccls. and reflow adj solder adj overn  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/08/13<br>16:46 |
|------|----|---|---|----|-----|---------------------|
| S27  | 0  | 29/831,846,852,830.ccls. and reflow adj soldering adj overn   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/08/13<br>16:46 |
| S26  | 0  | ("2008/0119041").URPN.  | USPAT   | OR | OFF | 2008/08/13<br>16:32 |
| S25  | 2  | ("3528173").PN.   | USPAT; USOCR  | OR | OFF | 2008/08/13<br>13:46 |
| S24  | 31 | "3528173"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT                                | OR | OFF | 2008/08/13<br>13:45 |
| S23  | 12 | S22 and drill   | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT                                | OR | OFF | 2008/08/13<br>12:58 |
| \$22 | 45 | (US-20080119041-\$ or US-20070029108-\$ or US-20070010086-\$ or US-20050121225-\$ or US-20050016763-\$ or US-20040216838-\$ or US-20040144564-\$ or US-20040025333-\$ or US-20040025333-\$ or US-20020162214-\$).did. or (US-6530279-\$ or US-3670409-\$ or US-3528173-\$ or US-3079577-\$ or US-7216422-\$ or US-7178234-\$ or US-6745463-\$ or US-6889432-\$ or US-6745463-\$ or US-6486394-\$ or US-6486394-\$ or US-6243946-\$ or US-6119335-\$ or US-6803528-\$ or US-6467160-\$ or US-5699613-\$ or US-5263243-\$ or US-5672226-\$ or US-5557844-\$ or US-4854040-\$ or US-4642160-\$ or US-4854040-\$ or US-3932932-\$).did. or (US-5414224-\$ or US-4950173-\$ or US-7016200-\$ or US-6655969-\$). did. or (US-3296099-\$ or US-2958064-\$).did. or (US-6530279-\$ or WO-8903165-\$ or EP-130719-\$).did. | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT                                | OR | OFF | 2008/08/13          |

| S21 | 59  | ("3619478"   "3670409"  <br>"4138604"   "4487465").PN. OR<br>("4950173").URPN.  | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/08/13<br>12:53 |
|-----|-----|---|---|----|-----|---------------------|
| S20 | 99  | 29/831,846,852,830.ccls. and foil<br>near5 laser  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/08/13<br>12:00 |
| S19 | 191 | 29/831,846,852,830.ccls. and foil with laser  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/08/13<br>12:00 |
| S18 | 19  | S17 and laser   | US-PGPUB;<br>USPAT; EPO;<br>JPO; DERWENT                                | OR | OFF | 2008/08/13<br>11:55 |
| S17 | 44  | (US-20080119041-\$ or US-20070029108-\$ or US-20070010086-\$ or US-20050121225-\$ or US-20050016763-\$ or US-20040216838-\$ or US-20040142161-\$ or US-20040025333-\$ or US-20040025333-\$ or US-20020162214-\$).did. or (US-6530279-\$ or US-3670409-\$ or US-3528173-\$ or US-3079577-\$ or US-7216422-\$ or US-7178234-\$ or US-7089660-\$ or US-6889432-\$ or US-6745463-\$ or US-6486394-\$ or US-6119335-\$ or US-6803528-\$ or US-6119335-\$ or US-6803528-\$ or US-6467160-\$ or US-5699613-\$ or US-5263243-\$ or US-5672226-\$ or US-5557844-\$ or US-4854040-\$ or US-4642160-\$ or US-4854040-\$ or US-3932932-\$).did. or (US-5414224-\$ or US-4950173-\$ or US-7016200-\$).did. or (US-3296099-\$ or US-2958064-\$).did. or (US-6530279-\$ or WO-8903165-\$ or EP-130719-\$).did. | US-PGPUB;<br>USPAT;<br>USOCR;<br>DERWENT                                | OR | OFF | 2008/08/13          |
| S16 | 22  | ("3022480"   "3275736"  <br>"3528173"   "3619478"  <br>"3745513"   "3832769"  <br>"3882264"   "3893233"  <br>"4086426").PN. OR ("4185378").<br>URPN.  | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/08/13<br>11:10 |

| S15 | 90   | ("2958064"   "2965812"  <br>"3022480"   "3024151"  <br>"3038105"   "3079577"  <br>"3200020"   "3216089"  <br>"3275736").PN. OR ("3670409").<br>URPN. | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/08/13<br>10:42 |
|-----|------|--|---|----|-----|---------------------|
| S14 | 2    | ("4950173").PN.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/08/13<br>10:27 |
| S13 | 37   | ("3296099").URPN.  | USPAT   | OR | OFF | 2008/08/13<br>10:18 |
| S12 | 14   | ("4933045"   "5232548"  <br>"5258094"   "5263243"  <br>"5699613").PN. OR ("6119335").<br>URPN.   | US-PGPUB;<br>USPAT; USOCR   | OR | OFF | 2008/08/13<br>09:59 |
| S11 | 24   | ("20010012800"   "3079577"  <br>"3528173"   "3670409"  <br>"4185378"   "4859188"  <br>"4894018"   "4950173"  <br>"5046954"   "6530279").PN.          | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/08/12<br>16:18 |
| S10 | 133  | 29/831,846,852,830.ccls. and ((circuit adj board) (printed adj circuit adj board) pcb) same foil same drill\$3                                       | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/08/12<br>15:56 |
| S9  | 605  | 29/831,846,852,830.ccls. and ((circuit adj board) (printed adj circuit adj board) pcb) and foil and drill\$3   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/08/12<br>15:56 |
| S8  | 938  | 29/831,846,852,830.ccls. and ((circuit adj board) (printed adj circuit adj board) pcb) and (bore hole opening) and foil                              | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/08/12<br>15:53 |
| S7  | 2602 | 29/831,846,852,830.ccls. and ((circuit adj board) (printed adj circuit adj board) pcb) and (bore hole opening)                                       | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/08/12<br>15:53 |
| S5  | 3327 | 29/831,846,852,830.ccls. and ((circuit adj board) (printed adj circuit adj board) pcb)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2008/08/12<br>15:52 |

| S4        | 2596 | (29/830).OCLS. | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/08/12<br>15:36 |
|-----------|------|----------------|---|----|-----|---------------------|
| <b>S3</b> | 1906 | (29/852).OCLS. | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/08/12<br>15:36 |
| S2        | 3113 | (29/846).OCLS. | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/08/12<br>15:36 |
| S1        | 1258 | (29/831).OCLS. | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2008/08/12<br>15:36 |

## 3/30/2009 11:56:45 AM

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